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Application Serial No. 10/564,938
Amendment

PATENT
Docket: CU-4652

Amendments to the Claims

The Listing of Claims presented below replaces all prior versions, and listings, of claims in the Application.

The Applicant wishes to make the following amendments to the claims of the above patent Application:

Listing of claims:

1.-70. (cancelled)

71. 77. (cancelled)

78. (new) A method for analysis of molecules in a sample comprising the steps of

- a) providing a device to be used in MALDI for combined sample treatment and sample carrying, wherein the device comprises a plate with inlets at one side connected to respective compartments situated at respective array positions for receiving samples to be treated and analysed, wherein each compartment is in communication with an outlet enabling fluid flow through the compartment from inlet to outlet, wherein the respective outlet comprises restriction apertures selected from the group consisting of a permeable membrane, a grid and a heel, wherein the outlet is arranged at the other side of the plate opposite the inlet, and wherein the respective compartment is formed between the inlet and the outlet and an analysis zone is arranged at the outer surface of each outlet,
- b) adding a capturing medium and a sample containing a molecule to one inlet wherein the capturing medium has affinity for the molecule in the sample;
- c) allowing the capturing medium and said sample containing a molecule to enter said compartment;

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- d) capturing said molecule in said compartment on the capturing medium producing a sample without the molecule at the same time;
- e) allowing the sample without the molecule to exit the outlet,
- f) adding a washing solution to said inlet and allowing said washing solution to enter said compartment;
- g) washing away undesired components in said compartment;
- h) allowing the washing solution comprising the undesired components to exit the outlet,
- i) eluting said molecule from said compartment; and
- j) drying said molecule in said analysis zone prior to being analysed by MALDI.

79. (new) The method according to claim 78, wherein all inlets are exposed to step b) allowing to load the plate with molecules to be analysed by Mass Spectrometry.

80. (new) The method according to claim 78, wherein all molecules are subjected to a crystallisation step after step e)

81. (new) The method according to claim 78, wherein said plate in a) contains 96 sets of inlets/compartments/outlets.

82. (new) The method according to claim 78, wherein said flow from inlet to outlet is provided by vacuum.

83. (new) The method according to claim 78, wherein the sample further contains a matrix for LDI.

84. (new) The method according to claim 78, wherein said molecules are antibodies, peptides, DNA, proteins and carbohydrates.